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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,280	02/20/2008	Johannes Meerdink	2144.000800/KDG	2928
	7590 10/28/200 IORGAN & AMERSO		EXAMINER	
10333 RICHMO	OND, SUITE 1100		COVINGTON, RAYMOND K	
HOUSTON, TX 77042			ART UNIT	PAPER NUMBER
			1625	
			MAIL DATE	DELIVERY MODE
			10/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/582,280	MEERDINK ET AL.
Office Action Summary	Examiner	Art Unit
	Raymond Covington	1625
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply be iod will apply and will expire SIX (6) MONTHS f tute, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 17 This action is FINAL . 2b) ☐ T Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matters,	
Disposition of Claims		
4) ☐ Claim(s) 1-21 is/are pending in the applicating the above claim(s) is/are with description of the above claim(s) is/are with description of the above claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	lrawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	accepted or b) objected to by the drawing(s) be held in abeyance. rection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a l	ents have been received. ents have been received in Applic riority documents have been rece eau (PCT Rule 17.2(a)).	cation No eived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:	

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Brien et al US 5521278 and Drysdale et al US 5236560.

Both O'Brien et al and Drysdale et al teach a process for the purification of lactide by condensing the vaporous reaction mixture, removing lactic acid and water as an overhead fraction, removing a higher boiling bottom fraction and a recycling step. See, respectively, column 8 line 60 to column 9 line 18, and, column 4 lines 56-67 with column 5 lines 29-57.

To use somewhat different but otherwise analogous process parameters in an otherwise well-known purification technique would have been obvious tone of ordinary skill in the art as the results, purified product, would not have been unexpected.

Applicants' comments have been noted and considered but are not deemed persuasive of patentability. It is noted that the functional equivalent of the

rectification column being mounted in relation to the depolymerisation reactor is taught by the cited prior art. See, for example column 2 step E of O'Brien et al where water and lactide are removed as vapor. Also note that condensation is equivalent to applicants' claimed liquefaction. Further, Steps C, O'Brien et al and (c), applicants, correspond. That is, the vapor mixture/vapor faction removed from the reactor is condensed. See, for example column 3 step C lines 18-23. In addition to the above, recycling reaction components back to a reactor is an obvious expedient well-known to a person of ordinary skill in the distillation chemical arts.

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

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will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres at telephone number (571) 272-0867.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/R. C./ Examiner, Art Unit 1625 RKC /Janet L. Andres/ Supervisory Patent Examiner, Art Unit 1625